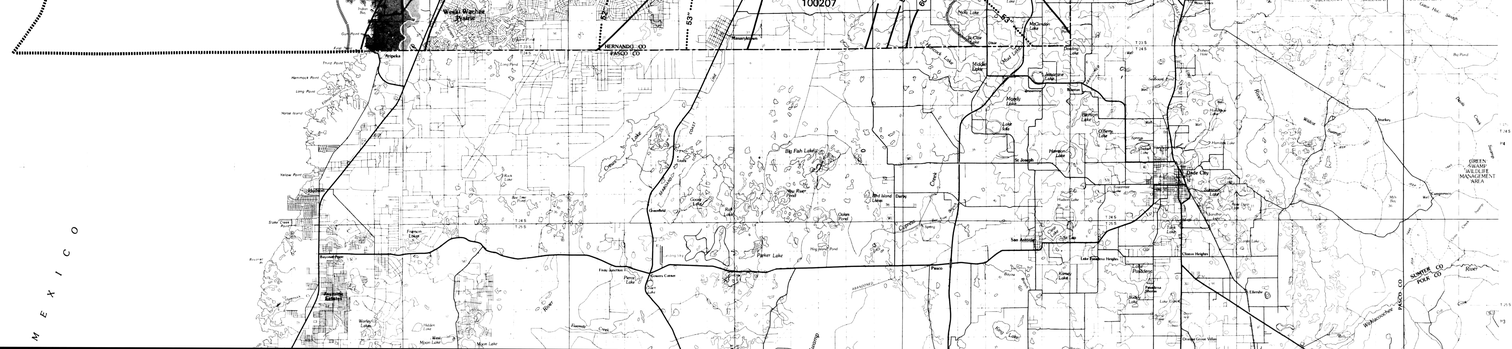
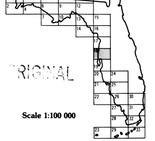
TARPON SPRINGS, FLORIDA
30 X 60 MINUTE SERIES (TOPOGRAPHIC)
100208
100207
100208
MAP E18
Tarpon Springs
FLORIDA ECOLOGICAL ATLAS
HYDROLOGY AND CLIMATOLOGY





ORIGINAL

Scale 1:100 000

TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

1984

Produced by U.S. Fish and Wildlife Service and Minerals Management Service

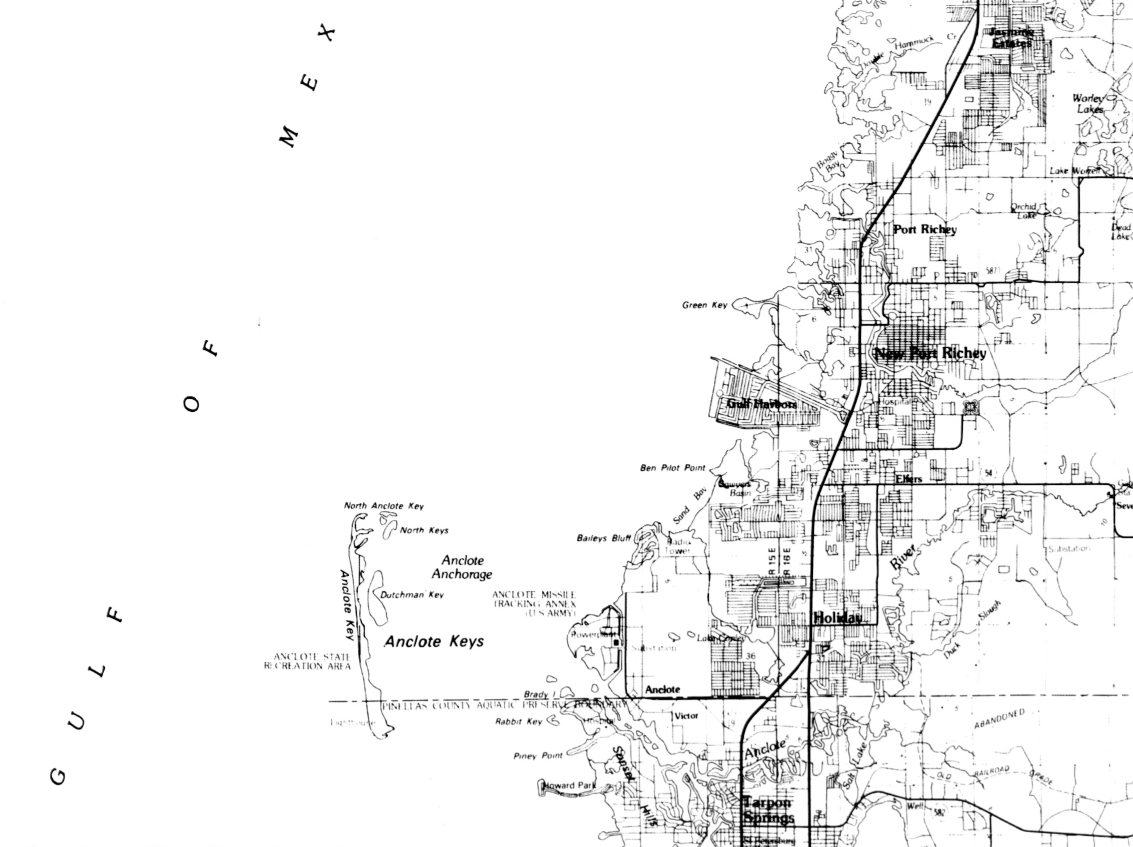
Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
20,000-foot grid ticks based on Florida coordinate system, east zone

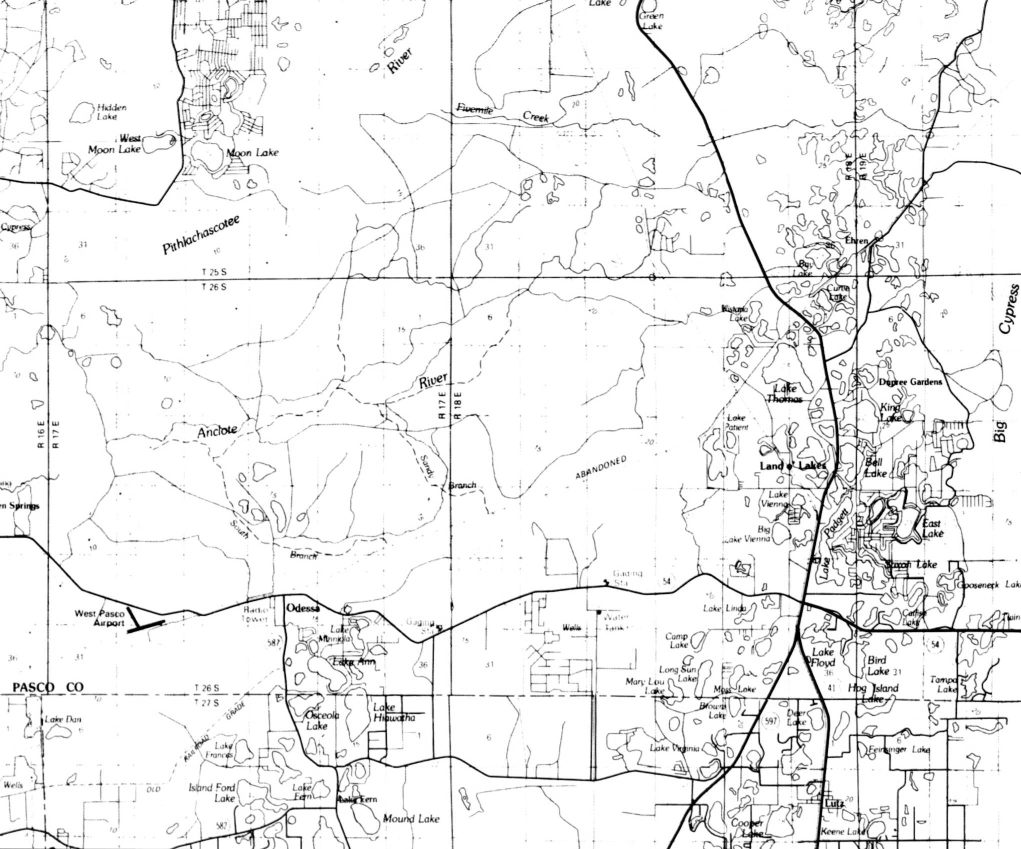
Overlay, material compiled in 1982 from

313

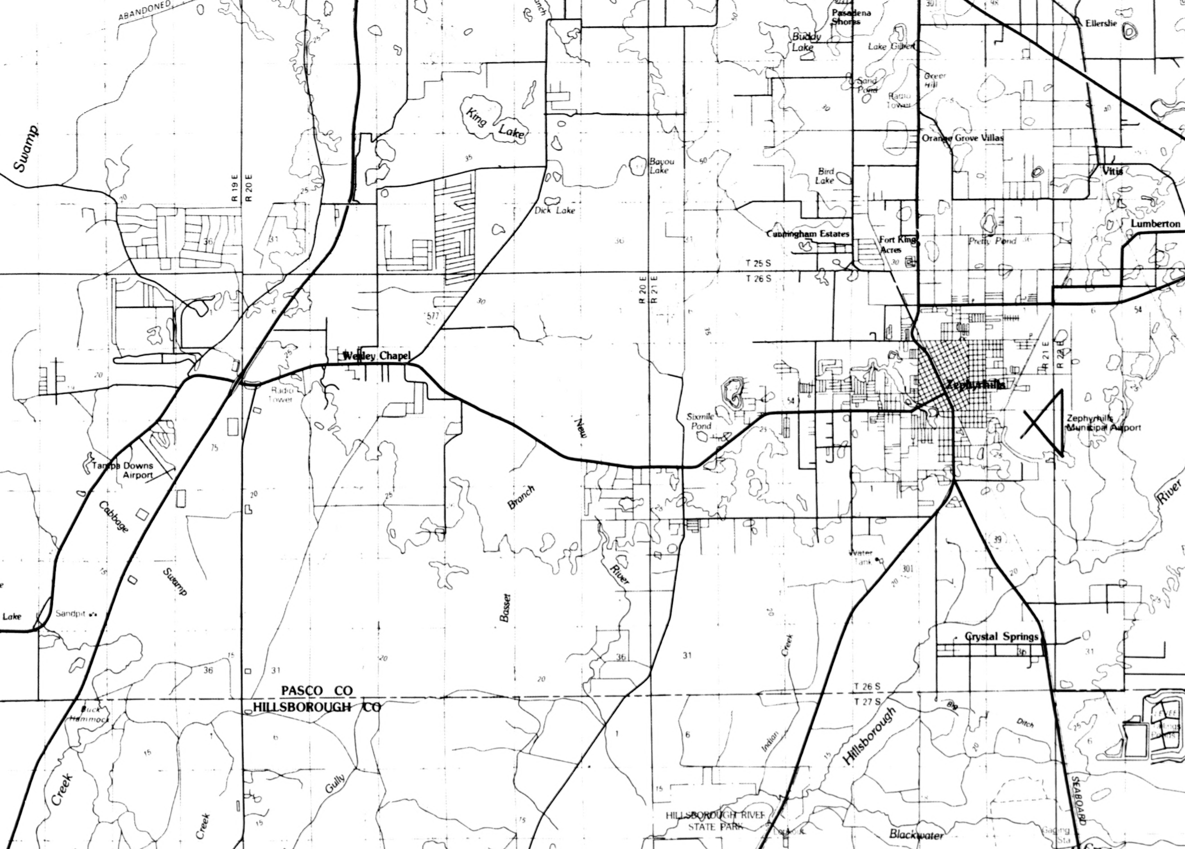
15

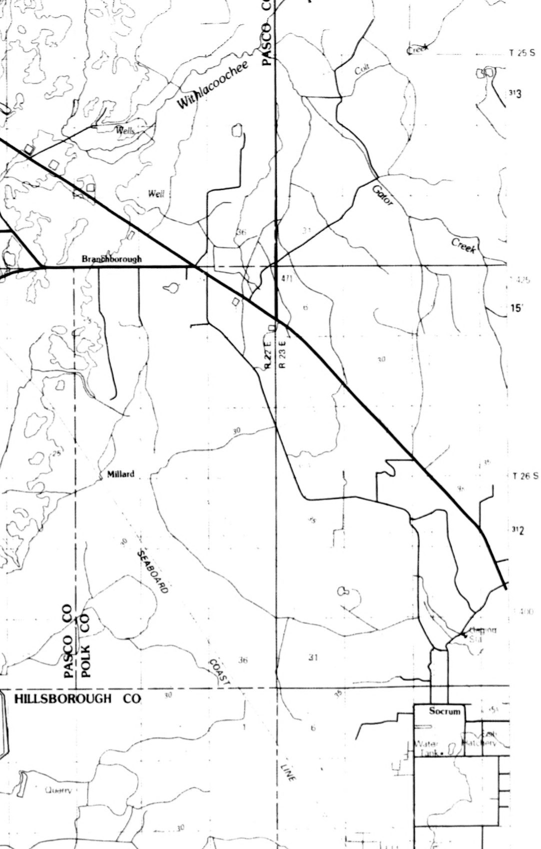
312


GULF OF MEX
Jasmine Estates
Double Hammock Cr
19
Worley Lakes
Boggy Bay
Lake Worrell
Orchid Lake
Port Richey
Dead Lake
31
587
Green Key
6
5
New Port Richey
Gulf Harbors
Hospital
Ben Pilot Point
Sawyers Basin
Sand Bay
Elfers
54
Sevel
North Anclote Key
North Keys
Baileys Bluff
Radio Tower
Anclote Anchorage
R 15 E
R 16 E
River
Substation
Dutchman Key
ANCLOTE MISSILE TRACKING ANNEX (U.S. ARMY)
Anclote Key
Holiday
Slough
Duck
Anclote Keys
Powerplant
Substation
Lake Copley
36
ANCLOTE STATE RECREATION AREA
Anclote
Brady I
PINELLAS COUNTY AQUATIC PRESERVE BOUNDARY
Victor
Lighthouse
Rabbit Key
Hospital
ABANDONED
Anclote
Piney Point
Sunset Hills
Salt Lake
OLD RAILROAD GRADE
Howard Park
Tarpon Springs
Well
582
St Petersburg



Lake
Green Lake
River
Fivemile Creek
Hidden Lake
West Moon Lake
Moon Lake
Cypress
Pithlachascotee
T 25 S
T 26 S
R 18 E
R 19 E
Ehren
Bay Lake
Curve Lake
Wistaria Lake
Cypress
Big
River
Dupree Gardens
Lake Thomas
King Lake
R 17 E
R 18 E
R 16 E
R 17 E
Anclote
Lake Patient
Sandy Branch
ABANDONED
Land o' Lakes
Bell Lake
Springs
Lake Vienna
Padgett
East Lake
Big Lake Vienna
South Branch
Lake
Saxon Lake
Gooseneck Lake
Gauging Sta
54
West Pasco Airport
Radio Tower
Odessa
Lake Minnola
Gauging Sta
Water Tank
Wells
Lake Linda
Catfish Lake
Twin
Camp Lake
587
Lake Ann
Lake Floyd
Bird Lake
54
Long Sun Lake
Mary Lou Lake
Moss Lake
Hog Island Lake
Tampa Lake
PASCO CO
T 26 S
T 27 S
RAILROAD GRADE
Lake Dan
Osceola Lake
Lake Hiawatha
Browns Lake
Deer Lake
597
Lake Francis
Lake Virginia
Feinsinger Lake
Wells
OLD
Island Ford Lake
Lake Fern
Lake Fern
Mound Lake
582
Lutz
Cooper Lake
Keene Lake


ABANDONED
Swamp
King Lake
Bayou Lake
Dick Lake
Pasadena Shores
Buddy Lake
Lake Gilbert
Sand Pond
Radio Tower
Greer Hill
Ellerslie
Orange Grove Villas
Vitis
Bird Lake
Cunningham Estates
Fort King Acres
Pretty Pond
Lumberton
R 19 E
R 20 E
R 21 E
R 22 E
T 25 S
T 26 S
T 27 S
577
Wesley Chapel
Radio Tower
54
301
39
Sixmile Pond
Zephyrhills
Zephyrhills Municipal Airport
New
Branch
River
Tampa Downs Airport
Cabbage
Swamp
Lake
Sandpit
Basset
Creek
Water Tank
Crystal Springs
PASCO CO
HILLSBOROUGH CO
Buck Hammock
Creek
Gully
Creek
Indian
Hillsborough
Big Ditch
HILLSBOROUGH RIVER STATE PARK
Lookout
Blackwater
Gaging Sta
SEABOARD
River


PASCO CO
T 25 S
313
Withlacoochee
Creek
Colt
Wells
Well
Gator
Creek
36
31
Branchborough
471
425
15′
R 22 E
R 23 E
30
25
Millard
T 26 S
312
SEABOARD
PASCO CO
POLK CO
COAST
36
31
HILLSBOROUGH CO
30
Socrum
Water Tank
Colt Hatchery
LINE
Quarry
400

Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000-foot grid ticks based on Florida coordinate system, west zone

Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

—50′— **POTENTIOMETRIC CONTOURS OF THE FLORIDAN AQUIFER**

The map represents dry season water levels present in tightly cased wells penetrating the Floridan Aquifer during May of 1980. The contour interval is 5 and 10 feet. Contour lines have been generalized to allow for non-simultaneous water level measurement and variable well depth.
Groundwater flow is down-gradient from potentiometric highs and perpendicular to potentiometric contour lines.
(Measured in feet above mean sea level)

••••52″•••• **MEAN ANNUAL ISOHYETAL (RAINFALL) CONTOURS**

(1951-1980 National Weather Service Normal Base Period)
The contour interval is 1.0" (refer to narrative for monthly isohyetal maps and for trend evaluation).

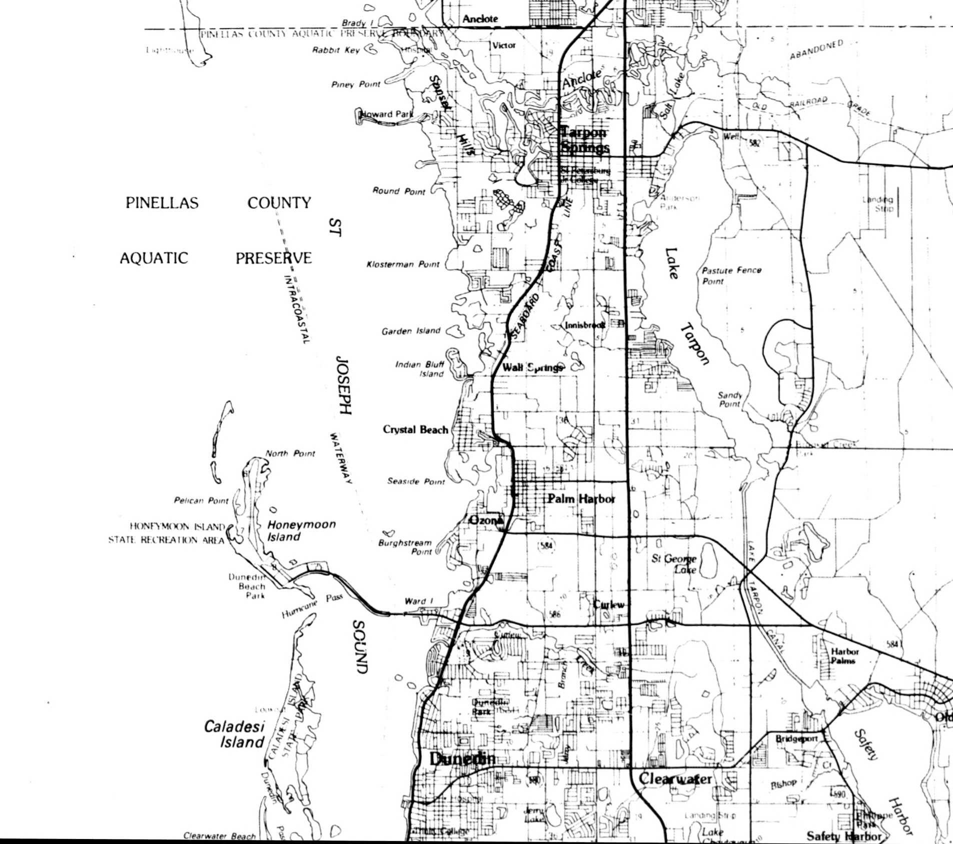
6 **NATIONAL WEATHER SERVICE 30-YEAR CLIMATOLOGICAL STATION**

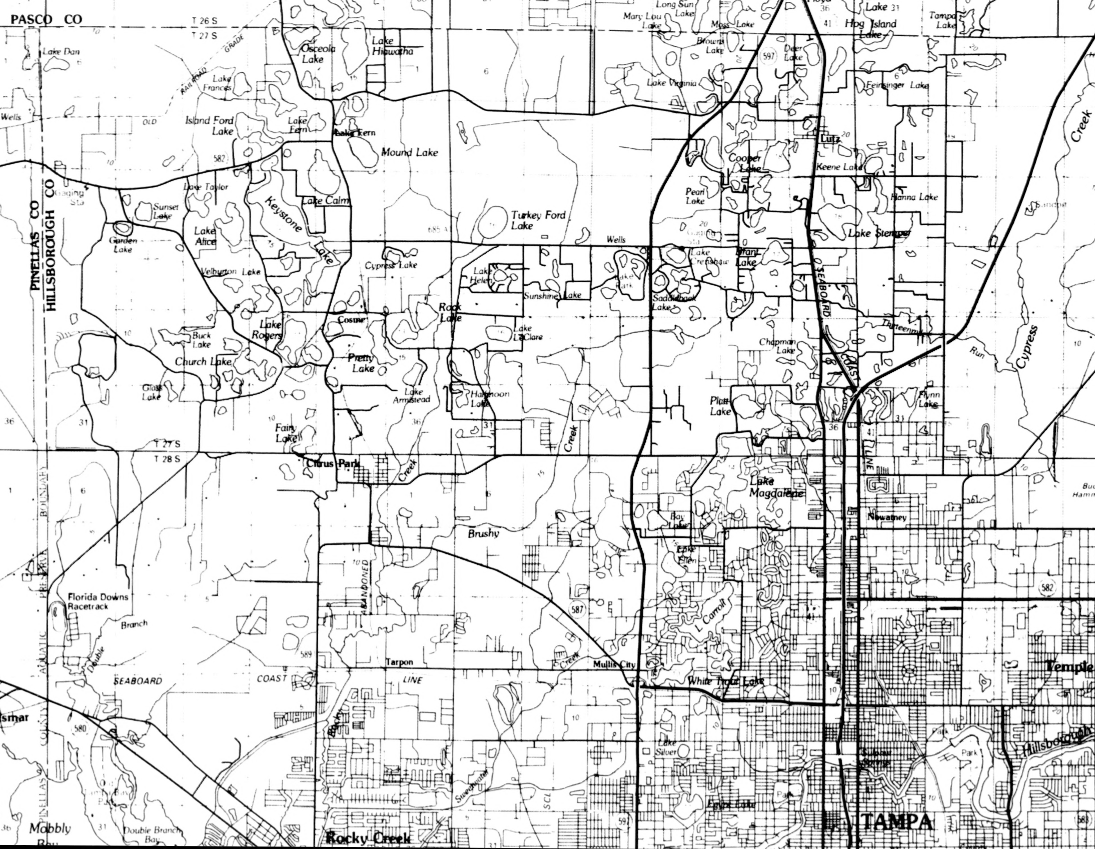
(Number in the box on map refers to station name in supplemental legend'

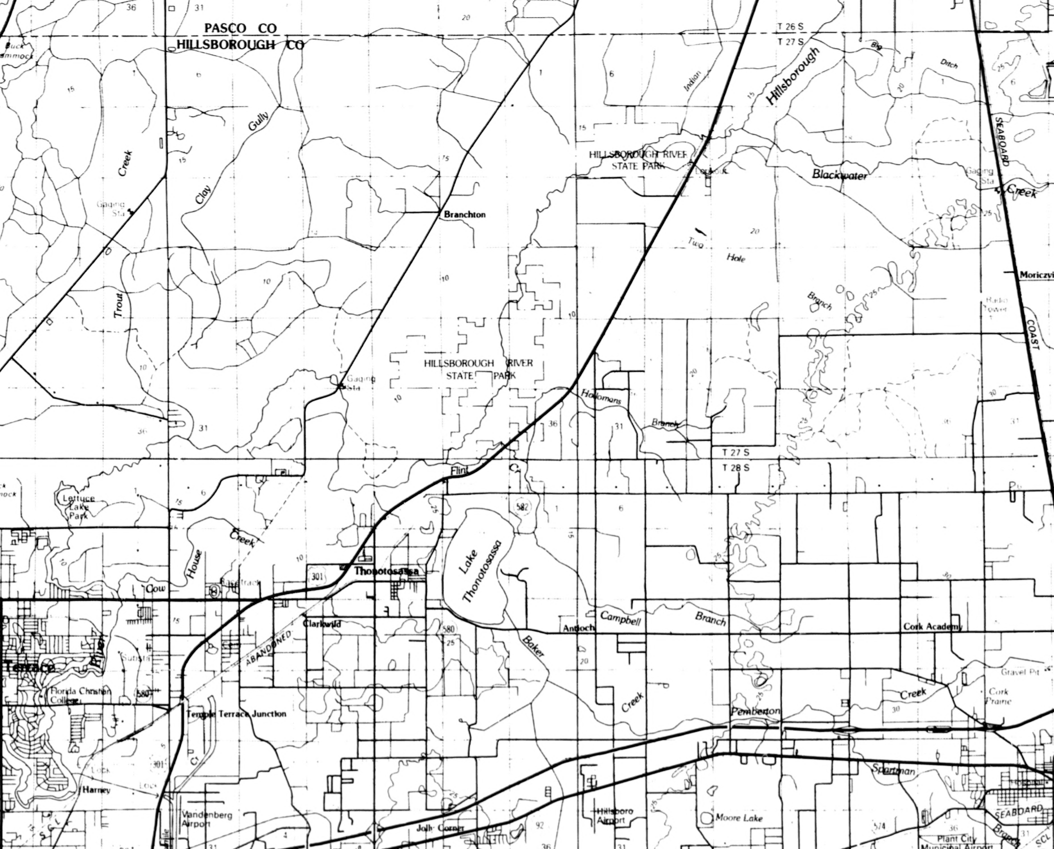
WIND ROSE STATION

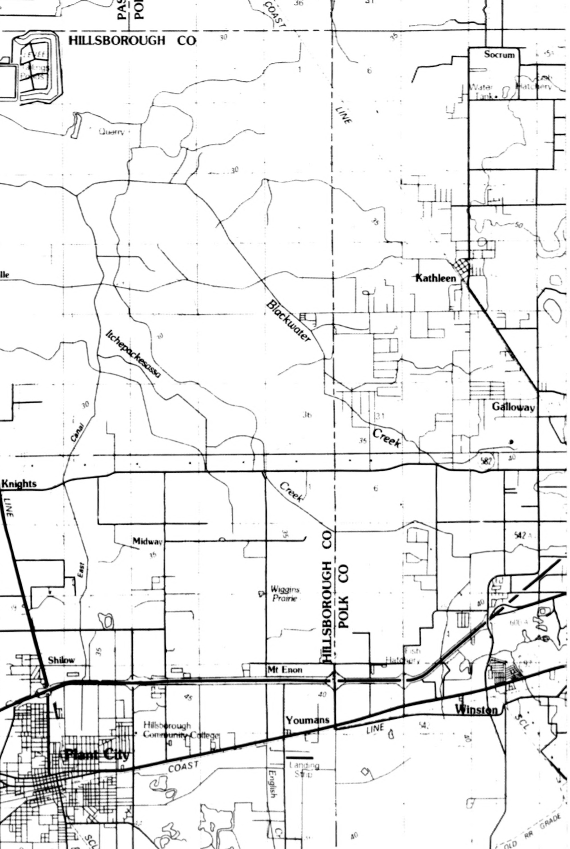
Concentric circles represent 5% frequency interval. The average wind speed (mph) is listed in the outer

G U


PINELLAS COUNTY AQUATIC PRESERVE BOUNDARY
PINELLAS COUNTY AQUATIC PRESERVE
ST JOSEPH SOUND
INTRACOASTAL WATERWAY
Brady I
Rabbit Key
Lighthouse
Anclote
Victor
Hospital
Piney Point
Howard Park
Sunset Hills
Anclote
Salt Lake
ABANDONED
OLD RAILROAD GRADE
Tarpon Springs
St Petersburg Jr College
Well
582
Round Point
Anderson Park
Landing Strip
SEABOARD COAST LINE
Klosterman Point
Lake Tarpon
Pastute Fence Point
Garden Island
Innisbrook
Indian Bluff Island
Wall Springs
Sandy Point
Crystal Beach
North Point
Seaside Point
Palm Harbor
Pelican Point
Honeymoon Island
HONEYMOON ISLAND STATE RECREATION AREA
Ozona
584
Burghstream Point
St George Lake
LAKE TARPON CANAL
Dunedin Beach Park
Hurricane Pass
Ward I
Curlew
586
Curlew
Harbor Palms
584
Branch Creek
Dunedin Park
Caladesi Island
CALADESI ISLAND STATE PARK
Lookout
Dunedin
Old
Bridgeport
Safety Harbor
Dunedin
Clearwater
Bishop
590
580
Jerry Lake
Landing Strip
Phillippe Park
Clearwater Beach
College
Lake Chautauqua
Safety Harbor
19

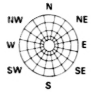

PASCO CO
T 26 S
T 27 S
Long Sun Lake
Mary Lou Lake
Moss Lake
Lake 31
Hog Island Lake
Tampa Lake
Lake Dan
Osceola Lake
Lake Hiawatha
Browns Lake
Deer Lake
597
RAILROAD GRADE
Lake Frances
Lake Virginia
Feinsinger Lake
Wells
OLD
Island Ford Lake
Lake Fern
Lake Fern
Mound Lake
Lutz
Creek
582
Cooper Lake
Keene Lake
Lake Taylor
Pearl Lake
Hanna Lake
Gaging Sta
Sunset Lake
Keystone Lake
Lake Calm
Turkey Ford Lake
685 A
Gaging Sta
Lake Stemper
Garden Lake
Lake Alice
Wells
Lake Crenshaw
Brant Lake
PINELLAS CO
HILLSBOROUGH CO
Velburton Lake
Cypress Lake
Lake Helen
Lake Park
SEABOARD
Sunshine Lake
Saddleback Lake
Lake Rogers
Cosme
Rock Lake
Lake LeClare
Thirteenmile
Buck Lake
Chapman Lake
Run
Cypress
Church Lake
Pretty Lake
COAST
Glass Lake
Lake Armistead
Halfmoon Lake
Platt Lake
Flynn Lake
Fairy Lake
Creek
T 27 S
T 28 S
Citrus Park
Creek
LINE
Lake Magdalene
Bay Lake
Nowatney
BOUNDARY
Brushy
Lake Ellen
ABANDONED
Florida Downs Racetrack
587
L Carroll
582
Branch
PRESERVE
AQUATIC
Double
589
Tarpon
Creek
Mullis City
SEABOARD
COAST
LINE
White Trout Lake
Temple
COUNTY
Oldsmar
580
Rocky
Lake Silver
Sulphur Springs
Hillsborough
Park
Park
Sweetwater
SCL
Park
Egypt Lake
597
PINELLAS
Mobbly Bay
Double Branch Bay
Rocky Creek
TAMPA
583
Buckhorn Hammock


PASCO CO
HILLSBOROUGH CO
T 26 S
T 27 S
Buck Hammock
Big Ditch
Hillsborough
Indian
Gully
Clay
Creek
Trout
Gaging Sta
SEABOARD
HILLSBOROUGH RIVER STATE PARK
Lookout
Blackwater
Creek
Branchton
Two Hole Branch
Moriczvi
Radio Tower
COAST
HILLSBOROUGH RIVER STATE PARK
Gaging Sta
Hollomans Branch
T 27 S
T 28 S
Flint
Lettuce Lake Park
582
House
Creek
Lake Thonotosassa
Thonotosassa
301
Cow
Racetrack
Clarkwild
ABANDONED
580
Antioch
Campbell
Branch
Cork Academy
Baker
Creek
Terrace
River
Florida Christian College
580
Temple Terrace Junction
Gravel Pit
Creek
Cork Prairie
Pemberton
301
Lock
Harney
Sportsman
Vandenberg Airport
Jolly Corner
92
Hillsboro Airport
Moore Lake
574
SEABOARD
Branch
SCL
Plant City Municipal Airport
36
31
20
1
6
15
10
25
30

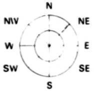

HILLSBOROUGH CO
Socrum
Water Tank
Hatchery
Quarry
Kathleen
Blackwater
Itchepackesassa
Galloway
Creek
Canal
Knights
LINE
Midway
East
Wiggins Prairie
HILLSBOROUGH CO
POLK CO
Shilow
Mt Enon
Fish Hatchery
Youmans
Winston
Hillsborough Community College
Plant City
COAST
Landing Strip
English
SCL
OLD RR GRADE
582
542
T 27 S
T 28 S
3100000m N

Normal Base Period)
The contour interval is 1.0" (refer to narrative for monthly isohyetal maps and for trend evaluation).

6 **NATIONAL WEATHER SERVICE 30-YEAR CLIMATOLOGICAL STATION**
(Number in the box on map refers to station name in supplemental legend'


N
NE
E
SE
S
SW
W
NW

WIND ROSE STATION
Concentric circles represent 5% frequency interval. The average wind speed (mph) is listed in the outer quadrant of each vector direction (Wind rose data represents wind data that has been summarized by the National Climatic Center for Airports, Naval Air Stations and NWS Offices)


N
NE
E
SE
S
SW
W
NW

OFFSHORE SURFACE CURRENT ROSE
Resultant vectors for each season are shown. The magnitude of each vector is proportional to the velocity. (Concentric circles represent 3 centimeters/second currents)
Vectors defined by the New England Coastal Engineers Computer Model C.A.L.

S	Spring
Su	Summer
FW	Fall/Winter

HURRICANE INUNDATION ZONES
(Maximum areas subject to flooding by Storm Category, as defined by National Weather Service Computer Models)

☐ Category #1 Storm (74-95 mph winds; probability of occurence 1:20 years)

☐ Category #2 Storm (96-110 mph winds; probability of occurence 1:42 years)

☐ Category #3 Storm (111-130 mph winds; probability of occurence 1:83 years)

☐ Category #4 Storm (131-155 mph winds; probability of occurence no historical record)

☐ Category #5 Storm (> 155 mph winds; probability of occurence no historical record)

(Hurricane inundation zones on this map represent generalized areas of maximum areal storm surge flooding by storm category. The scale and detail of this map are meant for planning purposes only. This map is unsuitable for determining the vulnerability of individual buildings to storm surge)

U.S. GEOLOGICAL SURVEY

$^{31}0$

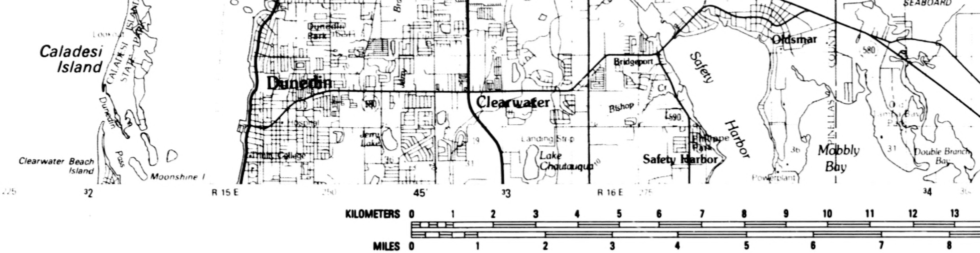
28°00'
83°00'

$^{3}1$ 200 000 FEET

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U S. FISH AND WILDLIFE SERVICE. DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS OBS - 82 47) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY THE STUDY AREA INCLUDES THE COASTAL COUNTIES ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, WASHINGTON, BAY, CALHOUN, GULF, FRANKLIN, WAKULLA, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS OFFSHORE APPROXIMATELY 10 MILES THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS

MICROCOPY RESOLUTION TEST CHART
NBS 1010a
ANSI and ISO TEST CHART No 2
1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0

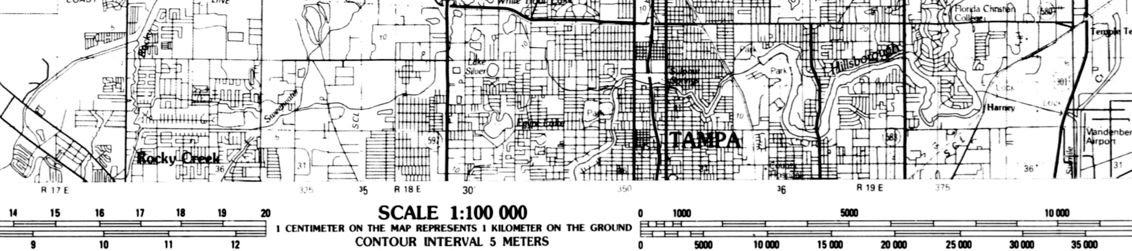

Caladesi Island
Caladesi Island State Park
Dunedin Pass
Clearwater Beach Island
Moonshine I
Dunedin
Dunedin Park
Clearwater
Jerry Lake
Landing Strip
Lake Chautauqua
Bridgeport
Bishop
Safety Harbor
Philippe Park
Oldsmar
Mobbly Bay
Double Branch Bay
Powerplant
Pinellas County
Seaboard
580
590
19
225
32
R 15 E
250
45'
33
R 16 E
275
34
KILOMETERS 0 1 2 3 4 5 6 7 8 9 10 11 12 13
MILES 0 1 2 3 4 5 6 7 8

PRIMARY SOURCES OF MAPPED INFORMATION:

HYDROLOGY: Potentiometric Surface of the Floridan Aquifer, Northwest Florida Water Management District, Tallahassee, Florida, 1980.
Potentiometric Surface of the Floridan Aquifer, Suwanee River Water Management District, Live Oak, Florida, 1980.
Potentiometric Surface of the Floridan Aquifer, Southwest Florida Water Management District, Brooksville, Florida, 1981.
Sea, Lake, and Overland Surges from Hurricanes (SLOSH) Model, National Oceanic and Atmospheric Administration, Silver Spring, Maryland, 1981.
Water Resources Data for Florida, U.S. Geological Survey, Tallahassee, Florida, 1979, 1980.
Water Quality Inventory for the State of Florida, Dept. of Environmental Regulation, Tallahassee, Florida, 1982.
Current Atlas of the West Florida Shelf, New England Coastal Engineers, Bangor, Maine. 1982.

CLIMATOLOGY: National Climatic Center, Asheville, North Carolina. 1981.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE


Rocky Creek
TAMPA
Hillsborough
Lake Silver
Egypt Lake
Sulphur Springs
Park
Harney
Florida Christian College
Temple Te
Vandenber Airport
County Hospital
Sweetwater
SCL
R 17 E
R 18 E
R 19 E
325
35
30′
350
36
375
14 15 16 17 18 19 20
9 10 11 12
0 1000 5000 10 000
0 5000 10 000 15 000 20 000 25 000 30 000 35 000

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

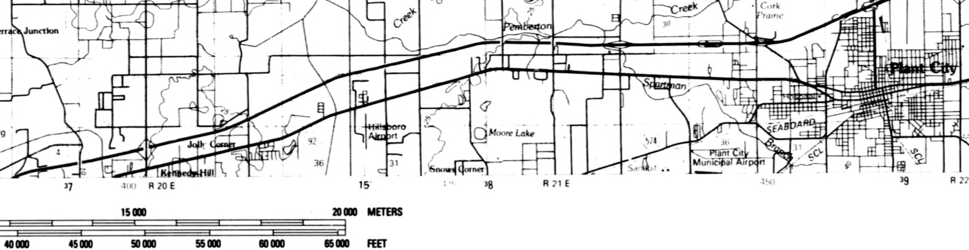
CONTOUR INTERVAL 5 METERS

CLIMATOLOGICAL STATION NAMES

1. Pensacola FAA Airport
2. Milton Experimental Station
3. Crestview FAA Airport
4. De Funiak Springs
5. Niceville
6. Chipley 3 E
7. Panama City NE
8. Blountstown
9. Apalachicola Airport
10. St. Marks 5 SSE
11. Monticello 3 W
12. Cross City 2 WNW
13. Inverness
14. Brooksville Chinsegut Hill

|||||||||||||||||||| **U.S. GEOLOGICAL SURVEY HYDROLOGIC UNIT BOUNDARIES (Cont'd)**

Coastal Area between Ochlockonee and Apalachicola Rivers (130013)
Ochlockonee River Basin (120003)
St. Marks and Wakulla Rivers and Coastal Area between Aucilla and Ochlockonee Rivers (120001)
Aucilla River Basin (110103)
Coastal Area between Suwannee and Aucilla Rivers (110102)
Suwannee River Basin below Withlacoochee River excluding Santa Fe River Basin (110205)
Waccasassa River and Coastal Area between Withlacoochee and Suwannee Rivers (110101)
Oklawaha River Basin (080102)
Withlacoochee River Basin (100208)
Coastal Area from Tampa Bay to Withlacoochee River (100207)


rrace Junction
Creek
Pemberton
Creek
Cork Prairie
Plant City
Sparkman
Hillsboro Airport
Moore Lake
Jolly Corner
Kennedy Hill
Snows Corner
SEABOARD
Plant City Municipal Airport
SCL
Branch
37
R 20 E
15
38
R 21 E
39
R 22
15 000
20 000 METERS
40 000
45 000
50 000
55 000
60 000
65 000 FEET

▲ Q = ___ cfs
R = ___ in/yr

U.S. GEOLOGICAL SURVEY STREAM GAGING STATION

Mean Annual Discharge (cubic feet/second) = Q
Mean Annual Runoff (inches/year) = R

△ SC = ___ mmhos
Q = ___ cfs
R = ___ in/yr

U.S. GEOLOGICAL SURVEY STREAM GAGE AND SURFACE WATER QUALITY STATION

Mean Annual Surface Water Specific Conductivity (micromhos) = SC
Mean Annual Discharge (cubic feet/second) = Q
Mean Annual Runoff (inches/year) = R

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION FIXED SURFACE WATER STATION

(Insufficient period of record to establish a long term mean)

○ SC = ___ mmhos
Cl = ___ mg/l

U.S. GEOLOGICAL SURVEY GROUND WATER OBSERVATION AND WATER QUALITY WELL

Mean Annual Ground Water Specific Conductivity (micromhos) = SC
Dissolved Chloride (milligrams/liter) = Cl

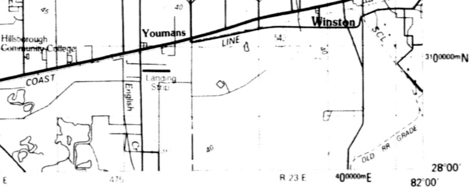
S = ___ ppt

MEAN ANNUAL COASTAL SALINITY

(parts per thousand) = S

STUDY AREA BOUNDARY

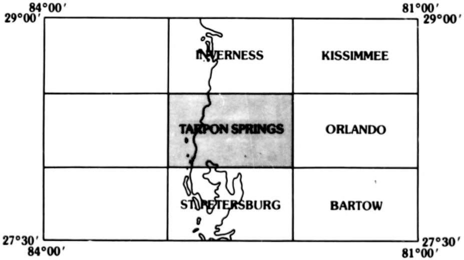
▮▮▮▮▮▮▮▮▮▮ Offshore
— — — Inland (County)
—‒‒‒— Inland (State)


Youmans
Winston
Hillsborough Community College
LINE
COAST
Landing Strip
English
OLD RR GRADE
SCL
3100000m N
28°00′
475
R 23 E
400000m E
82°00′

☐ Category #5 Storm (> 155 mph winds; probability of occurence no historical record)

(Hurricane inundation zones on this map represent generalized areas of maximum areal storm surge flooding by storm category. The scale and detail of this map are meant for planning purposes only. This map is unsuitable for determining the vulnerability of individual buildings to storm surge)

TARPON SPRINGS, FLA.
N2800—W8200/30 X 60
1978


84°00′
29°00′
81°00′
29°00′
INVERNESS
KISSIMMEE
TARPON SPRINGS
ORLANDO
ST PETERSBURG
BARTOW
27°30′
84°00′
27°30′
81°00′

U.S. GEOLOGICAL SURVEY HYDROLOGIC UNIT BOUNDARIES

- Perdido River Basin (14106)
- Perdido Bay, Inflow and Coastal Area (140107)
- Lower Conecuh River Basin (140304)
- Escambia River Basin (140305)
- Blackwater River Basin (140104)
- Escambia Bay, Inflow and Coastal Area (140105)
- Yellow River Basin (140103)
- Choctawhatchee Bay, Inflow and Coastal Area (140102)
- Pea River Basin (140202)
- Choctawhatchee River below Pea River (140203)
- St. Andrews Bay, Inflow and Coastal Area (140101)
- Chipola River Basin (130012)
- Apalachicola River Basin (130011)
- Apalachicola Bay Coastal Area and Offshore Islands (130014)

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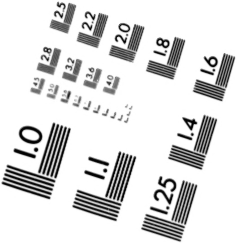
MICROCOPY RESOLUTION TEST CHART
NBS 1010a
(ANSI and ISO TEST CHART No. 2)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1.4